

California Water Plan Update 2003 & Beyond

**California Bay-Delta Authority
Water Supply Subcommittee
November 12, 2003**

New Planning Framework

- 65-member Public Advisory Committee
- Water Portfolios using 1998, 2000, 2001 data
- Regional Reports reflecting regional goals & plans
- Multiple Scenarios to account for future uncertainties and risks
- Many Strategies to help meet future demands

Issues & Challenges

- Significant data and information gaps
- Modeling tools are not fully developed
- Revising the process impacted schedule
- Reduced staff & budget for Update 2003
- Lack of consensus on new surface storage as a future strategy

Phased Work Plan

- **2003**
 - Public Review Draft of Update 2003
 - Narratives of four 2030 Future Scenarios
 - Short & Long-term Work Plan for Data & Tools
- **2004**
 - Public Comment & Release Final Update 2003
 - Select methods to quantify 2030 Scenarios
- **2005 (Begins Update 2008)**
 - Conduct Quantitative Studies for 2030 Scenarios

Water Plan – Bay Delta Program Linkages

- State's ROD Commitments in Update 2003
- Common Regional Reports on Integrated Regional Planning & Implementation
- Common Assumptions & Estimates
- Common Data & Analytical Tools
- Common Stakeholders

Key Recommendations for the Future

- State promote & assist Regionally-based, Integrated, Multi-resource planning
- Locals improve coordination of land use planning & water management
- Diversify Regional Portfolios using 25 resource management strategies
- Reduce uncertainty by filling data/tool gaps

Four Volumes of Update 2003

- **Vol. 1 – Strategic Plan**
 - Findings, Recommendations & Implementation
- **Vol. 2 – 12 Regional Reports**
 - 10 Hydrologic Regions, Mt. Counties & Delta
- **Vol. 3 – Reference Guide**
 - Supplemental articles
- **Vol. 4 – Technical Guide (Electronic Only)**
 - Documentation for data, methods & tools

Volume 1 – Strategic Plan

- **Foreword & Users Guide**
- **Executive Summary**
- **Ch 1 – Overview (Key Recommendations)**
- **Ch 2 – CA Water Today (Statewide View)**
- **Ch 3 – Planning for an Uncertain Future**
- **Ch 4 – Regional Integrated Resource Plng**
- **Ch 5 – State Role & Responsibilities**
- **Ch 6 – Implementation & Funding**
- **Appendix - Resource Management Strategies**

Resource Management Strategies

(Definition, Current Level, 2030 Potential & Cost,
Benefits, Issues & Recommendations)

- | | |
|--|---|
| 1. Agricultural Use Efficiency | 13. Recharge Area Protection |
| 2. Aquifer Remediation | 14. Recycled Municipal Water |
| 3. Conjunctive Management | 15. Surface Storage – Bay-Delta Program |
| 4. Conveyance | 16. Surface Storage –Region/Local |
| 5. Desalination | 17. System Reoperation |
| 6. Drinking Water Treatment & Distribution | 18. Urban Land Use Management |
| 7. Economic Incentives Policy | 19. Urban Runoff Management |
| 8. Ecosystem Restoration | 20. Urban Water Use Efficiency |
| 9. Floodplain Management | 21. Water-Dependent Recreation |
| 10. Matching Water Quality to Use | 22. Water Transfers |
| 11. Pollution Prevention | 23. Watershed Management |
| 12. Precipitation Enhancement | 24. Working Lands Management |
| | 25. Other Strategies (R&D) |

Estimates for Additional Water Demands by 2030

- To accommodate 17 million more Californians
 - **Additional 2 - 3 million acre-feet**
- To recover Groundwater Overdraft
 - **Additional 1 - 2 million acre-feet**
- To restore the Environment
 - **More is required (range is being estimated)**
- To maintain Irrigated Agriculture
 - **About the same as now**

***Sept. 30 Draft
Work in
Progress***

Investment Guide to Meet 2030 Water Demands

Resource Management Strategy	Potential Water Benefits by 2030 (Million Acre-Ft)	Implementation Cost (\$ Billion)
High Implementation Confidence		
Agricultural Water Use Efficiency	0.2 - 0.5	Being Developed
Conjunctive Management	0.5	1.3
Desalination (brackish water)	0.2	Being Developed
Recycled Municipal Water	1.2	8.0
Urban Water Use Efficiency	1.5 – 2.0	Being Developed
Water Transfers	0.3 – 0.7	Being Developed
Medium Implementation Confidence		
Additional Desalination (ocean water)	0.2	0.8 – 1.3
Precipitation Enhancement	0.3 – 0.4	0.6 – 0.7
Additional Recycled Municipal Water	0.3	3.0
Surface Storage – CALFED/State	0.3 – 1.0	2.9 - 5.7
Additional Urban Water Use Efficiency	0.5	Being Developed
System Reoperation	0.1 – 0.3	Unknown
Additional Water Transfers	0.4	Unknown
Lower Implementation Confidence		
Additional Agricultural WUE including RDI, and new technologies	1.0	Being Developed
Additional Conjunctive Management	1.0	Unknown
Additional Surface Storage	Unknown	Unknown

Water Plan Update 2003

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